CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS SYSTEM

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A008 Red-bellied Newt Taricha rivularis

Family: Salamandridae Order: Caudata Class: Amphibia

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DISTRIBUTION, ABUNDANCE, AND SEASONALITY

The red-bellied newt ranges within Sonoma, Mendocino, Humboldt and Lake cos. Abundant in most of range. Migrates to streams during fall and winter rains. Inhabits primarily redwood forest, but also found within mixed conifer, valley-foothill woodland, montane hardwood and hardwood-conifer habitats.

SPECIFIC HABITAT REQUIREMENTS

Feeding: Feeds on arthropods, worms and snails in water and on forest floor within ground litter.

Cover: Spends dry season underground within root channels.

Reproduction: Requires rapid streams with rocky substrate for breeding and egg-laying.

Water: Rapid-flowing, permanent streams are required for breeding and larval development.

Pattern: Streams in proximity to redwood forest are required.

SPECIES LIFE HISTORY

Activity Patterns: Primarily active at night. Migrate to streams during autumn rains, returning to terrestrial habitat in the spring. Aestivation in terrestrial habitat takes place during the summer months.

Seasonal Movements/Migration: May migrate a mile or more to and from the breeding stream. Migratory movements stimulated primarily by rain, but in heavy amounts rain inhibits movement toward the stream.

Home Range: Displaced individuals return to home site (within 50 ft of point previously occupied in stream) (Packer 1963). "Neighborhood size" within a segment of stream was estimated at 0.4-1.0 km (0.2-0.6 mi) (Hedgecock 1978). Home range over land extends only over a small area adjacent to the breeding site (Twitty et al. 1967). Density was estimated at 22 per m (6.7 per ft) of stream at Pepperwood Creek, Sonoma Co. (Hedgecock 1978).

Territory: Not territorial.

Reproduction: Males arrive at breeding site before females, in February. In March to April, females lay approximately 12 flat clusters of 6-16 eggs each, on undersides of rocks (Behler and King 1979). Females breed on the average every 3 years (Hedgecock 1978).

Larvae transform in late summer to early fall. Sexual maturity occurs at 6-10 years of age (Hedgecock 1978). Life span is relatively long; 25% of animals marked in 1953 were captured in 1964 (Twitty 1964).

Niche: Has few enemies due to poisonous skin secretions.

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